Significance tables

Reference

Standard Reco Jets and MET and Standard Reco leptons.
Single Lepton!!

Sample	electrons V+j pt 10	SL opt::pt10	SL opt::pt5	SL opt::pt2
LM0	83.6766	111.075	114.214	114.394
LM1	9.58411	12.9456	13.7438	13.7859
QCD 250-500	0	0	0	0
QCD 500-1000	0	0	2.99489	2.99489
QCD 1000-Inf	0.62144	0.764849	0.908258	1.05167
BB	0	0	0	0
WJets	314.937	402.42	402.42	402.42
TT Bar Jets	124.085	153.266	156.027	156.135
Sig LM0	3.99074	4.70874	4.81635	4.82283
Sig LM1	0.45709	0.548793	0.579566	0.581214

Standard Reco Jets and MET and Standard Reco leptons.
Same Sign Double Lepton!!

Sample	electron electron V+j pt 10	SL opt::pt10	SL opt::pt5	SL opt::pt2
LM0	1.39012	2.17487	2.28698	2.28698
LM1	0.222037	0.376619	0.404725	0.404725
QCD 250-500	0	0	0	0
QCD 500-1000	0	0	0	0
QCD 1000-Inf	0	0	0	0
BB	0	0	0	0
WJets	0	0	0	0
TT Bar Jets	0.0541384	0.324831	0.433107	0.433107
Sig LM0	5.97449	3.81597	3.47508	3.47508
Sig LM1	0.954271	0.660806	0.614982	0.614982

PF elTight

Particle Flow Jets and MET and Particle Flow leptons.
Single Lepton!!

Sample	electrons V+j pt 10	SL opt::pt10	SL opt::pt5	SL opt::pt2
LM0	83.542	74.9322	76.9053	76.995
LM1	9.53633	9.24122	9.88766	9.91857
QCD 250-500	0	0	0	0
QCD 500-1000	0	0	0	0
QCD 1000-Inf	0.430228	0.334622	0.430228	0.430228
BB	0	0	0	0
WJets	209.958	192.462	192.462	192.462
TT Bar Jets	75.3065	68.2685	69.7844	69.8386
Sig LM0	4.94258	4.63761	4.74511	4.75015
Sig LM1	0.564196	0.571946	0.610075	0.611919

Particle Flow Jets and MET and Particle Flow leptons.
Same Sign Double Lepton!!

Sample	electron electron V+j pt 10	SL opt::pt10	SL opt::pt5	SL opt::pt2
LM0	1.5695	1.18833	1.30044	1.30044
LM1	0.269817	0.241711	0.269817	0.269817
QCD 250-500	0	0	0	0
QCD 500-1000	0	0	0	0
QCD 1000-Inf	0	0	0	0
BB	0	0	0	0
WJets	0	0	0	0
TT Bar Jets	0	0.0541384	0.0541384	0.0541384
Sig LM0	inf	5.10723	5.58904	5.58904
Sig LM1	inf	1.03883	1.15962	1.15962

PF 0.85 < mva < 0.9 and H over E < 0.002

Particle Flow Jets and MET and Particle Flow leptons.
Single Lepton!!

Sample	electrons V+j pt 10	SL opt::pt10	SL opt::pt5	SL opt::pt2
LM0	80.3325	108.488	111.806	112.291
LM1	11.1596	14.4019	15.4503	15.5646
QCD 250-500	0	0	0	0
QCD 500-1000	0	2.59185	2.59185	2.59185
QCD 1000-Inf	0.579179	1.11699	1.28247	1.48932
BB	0	0	0	0
WJets	181.703	211.986	211.986	211.986
TT Bar Jets	12.6871	17.476	18.5068	18.9148
Sig LM0	5.75304	7.10465	7.30324	7.32657
Sig LM1	0.799201	0.943156	1.00922	1.01553

Particle Flow Jets and MET and Particle Flow leptons.
Same Sign Double Lepton!!

Sample	electron electron V+j pt 10	SL opt::pt10	SL opt::pt5	SL opt::pt2
LM0	1.41649	2.60013	2.83298	2.85238
LM1	0.296747	0.479173	0.535117	0.552144
QCD 250-500	0	0	0	0
QCD 500-1000	0	0	0	0
QCD 1000-Inf	0	0	0	0
BB	0	0	0	0
WJets	0	0	0	0
TT Bar Jets	0	0.0937053	0.140558	0.515379
Sig LM0	inf	8.49402	7.55642	3.97324
Sig LM1	inf	1.56535	1.42732	0.76911

Reference

Standard Reco Jets and MET and Standard Reco leptons.
Single Lepton!!

Sample	electrons V+j pt 10	SL opt::pt10	SL opt::pt5	SL opt::pt2
LM0	83.6766	111.075	114.214	114.394
LM1	9.58411	12.9456	13.7438	13.7859
QCD 250-500	0	0	0	0
QCD 500-1000	0	0	2.99489	2.99489
QCD 1000-Inf	0.62144	0.764849	0.908258	1.05167
BB	0	0	0	0
WJets	314.937	402.42	402.42	402.42
TT Bar Jets	124.085	153.266	156.027	156.135
Sig LM0	3.99074	4.70874	4.81635	4.82283
Sig LM1	0.45709	0.548793	0.579566	0.581214

Standard Reco Jets and MET and Standard Reco leptons.
Same Sign Double Lepton!!

Sample	electron electron V+j pt 10	SL opt::pt10	SL opt::pt5	SL opt::pt2
LM0	1.39012	2.17487	2.28698	2.28698
LM1	0.222037	0.376619	0.404725	0.404725
QCD 250-500	0	0	0	0
QCD 500-1000	0	0	0	0
QCD 1000-Inf	0	0	0	0
BB	0	0	0	0
WJets	0	0	0	0
TT Bar Jets	0.0541384	0.324831	0.433107	0.433107
Sig LM0	5.97449	3.81597	3.47508	3.47508
Sig LM1	0.954271	0.660806	0.614982	0.614982

PF elTight

Particle Flow Jets and MET and Particle Flow leptons.
Single Lepton!!

Sample	electrons V+j pt 10	SL opt::pt10	SL opt::pt5	SL opt::pt2
LM0	83.542	74.9322	76.9053	76.995
LM1	9.53633	9.24122	9.88766	9.91857
QCD 250-500	0	0	0	0
QCD 500-1000	0	0	0	0
QCD 1000-Inf	0.430228	0.334622	0.430228	0.430228
BB	0	0	0	0
WJets	209.958	192.462	192.462	192.462
TT Bar Jets	75.3065	68.2685	69.7844	69.8386
Sig LM0	4.94258	4.63761	4.74511	4.75015
Sig LM1	0.564196	0.571946	0.610075	0.611919

Particle Flow Jets and MET and Particle Flow leptons.
Same Sign Double Lepton!!

Sample	electron electron V+j pt 10	SL opt::pt10	SL opt::pt5	SL opt::pt2
LM0	1.5695	1.18833	1.30044	1.30044
LM1	0.269817	0.241711	0.269817	0.269817
QCD 250-500	0	0	0	0
QCD 500-1000	0	0	0	0
QCD 1000-Inf	0	0	0	0
BB	0	0	0	0
WJets	0	0	0	0
TT Bar Jets	0	0.0541384	0.0541384	0.0541384
Sig LM0	inf	5.10723	5.58904	5.58904
Sig LM1	inf	1.03883	1.15962	1.15962

PF 0.85 < mva < 0.9 and H over E < 0.06

Particle Flow Jets and MET and Particle Flow leptons.
Single Lepton!!

Sample	electrons V+j pt 10	SL opt::pt10	SL opt::pt5	SL opt::pt2
LM0	15.9307	22.237	25.4192	27.2238
LM1	2.15506	2.93828	3.65096	3.93554
QCD 250-500	0	0	0	0
QCD 500-1000	0	0	0	0
QCD 1000-Inf	0.12411	0.413699	0.786028	1.40658
BB	0	0	0	0
WJets	45.4256	45.4256	45.4256	45.4256
TT Bar Jets	12.5097	17.2886	18.3194	18.6474
Sig LM0	2.09073	2.79875	3.1643	3.36431
Sig LM1	0.282829	0.369813	0.454488	0.486353

Particle Flow Jets and MET and Particle Flow leptons.
Same Sign Double Lepton!!

Sample	electron electron V+j pt 10	SL opt::pt10	SL opt::pt5	SL opt::pt2
LM0	0.271656	0.853775	1.28066	1.9404
LM1	0.0826999	0.145941	0.257829	0.340529
QCD 250-500	0	0	0	0
QCD 500-1000	0	0	0	0
QCD 1000-Inf	0	0	0.0413699	0.12411
BB	0	0	0	0
WJets	0	0	0	0
TT Bar Jets	0	0.0937053	0.140558	0.515879
Sig LM0	inf	2.78908	3.00251	2.42647
Sig LM1	inf	0.476755	0.604481	0.425831

Reference

Standard Reco Jets and MET and Standard Reco leptons.
Single Lepton!!

Sample	electrons V+j pt 10	SL opt::pt10	SL opt::pt5	SL opt::pt2
LM0	83.6766	111.075	114.214	114.394
LM1	9.58411	12.9456	13.7438	13.7859
QCD 250-500	0	0	0	0
QCD 500-1000	0	0	2.99489	2.99489
QCD 1000-Inf	0.62144	0.764849	0.908258	1.05167
BB	0	0	0	0
WJets	314.937	402.42	402.42	402.42
TT Bar Jets	124.085	153.266	156.027	156.135
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Sig LM1	0.45709	0.548793	0.579566	0.581214

Standard Reco Jets and MET and Standard Reco leptons.
Same Sign Double Lepton!!

Sample	electron electron V+j pt 10	SL opt::pt10	SL opt::pt5	SL opt::pt2
LM0	1.39012	2.17487	2.28698	2.28698
LM1	0.222037	0.376619	0.404725	0.404725
QCD 250-500	0	0	0	0
QCD 500-1000	0	0	0	0
QCD 1000-Inf	0	0	0	0
BB	0	0	0	0
WJets	0	0	0	0
TT Bar Jets	0.0541384	0.324831	0.433107	0.433107
Sig LM0	5.97449	3.81597	3.47508	3.47508
Sig LM1	0.954271	0.660806	0.614982	0.614982

PF elTight

Particle Flow Jets and MET and Particle Flow leptons.
Single Lepton!!

Sample	electrons V+j pt 10	SL opt::pt10	SL opt::pt5	SL opt::pt2
LM0	83.542	74.9322	76.9053	76.995
LM1	9.53633	9.24122	9.88766	9.91857
QCD 250-500	0	0	0	0
QCD 500-1000	0	0	0	0
QCD 1000-Inf	0.430228	0.334622	0.430228	0.430228
BB	0	0	0	0
WJets	209.958	192.462	192.462	192.462
TT Bar Jets	75.3065	68.2685	69.7844	69.9386
Sig LM0	4.94258	4.63761	4.74511	4.75015
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Particle Flow Jets and MET and Particle Flow leptons.
Same Sign Double Lepton!!

Sample	electron electron V+j pt 10	SL opt::pt10	SL opt::pt5	SL opt::pt2
LM0	1.5695	1.18833	1.30044	1.30044
LM1	0.269817	0.241711	0.269817	0.269817
QCD 250-500	0	0	0	0
QCD 500-1000	0	0	0	0
QCD 1000-Inf	0	0	0	0
BB	0	0	0	0
WJets	0	0	0	0
TT Bar Jets	0	0.0541384	0.0541384	0.0541384
Sig LM0	inf	5.10723	5.58904	5.58904
Sig LM1	inf	1.03883	1.15962	1.15962

PF 0.85 < mva and H over E < 0.06

Particle Flow Jets and MET and Particle Flow leptons.
Single Lepton!!

Sample	electrons V+j pt 10	SL opt::pt10	SL opt::pt5	SL opt::pt2
LM0	29.5717	40.5155	45.1919	48.0054
LM1	3.7969	5.07145	6.15141	6.52843
QCD 250-500	0	0	0	0
QCD 500-1000	0	0	0	0
QCD 1000-Inf	0.12411	0.661918	1.40658	2.1926
BB	0	0	0	0
WJets	121.135	121.135	121.135	121.135
TT Bar Jets	24.8319	32.0941	33.6402	34.2961
Sig LM0	2.4466	3.26599	3.61614	3.82366
Sig LM1	0.314136	0.408814	0.492221	0.519993

Particle Flow Jets and MET and Particle Flow leptons.
Same Sign Double Lepton!!

Sample	electron electron V+j pt 10	SL opt::pt10	SL opt::pt5	SL opt::pt2
LM0	0.679139	1.74636	2.48371	3.64795
LM1	0.145941	0.250532	0.40377	0.537549
QCD 250-500	0	0	0	0
QCD 500-1000	0	0	0	0
QCD 1000-Inf	0	0	0.0413699	0.16548
BB	0	0	0	0
WJets	15.1419	15.1419	15.1419	15.1419
TT Bar Jets	0	0.281116	0.468526	1.21817
Sig LM0	0.174529	0.444681	0.627796	0.897369
Sig LM1	0.0375049	0.0637939	0.102059	0.132233

Reference

Standard Reco Jets and MET and Standard Reco leptons.
Single Lepton!!

Sample	electrons V+j pt 10	SL opt::pt10	SL opt::pt5	SL opt::pt2
LM0	83.6766	111.075	114.214	114.394
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QCD 500-1000	0	0	2.99489	2.99489
QCD 1000-Inf	0.62144	0.764849	0.908258	1.05167
BB	0	0	0	0
WJets	314.937	402.42	402.42	402.42
TT Bar Jets	124.085	153.266	156.027	156.135
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LM1	0.222037	0.376619	0.404725	0.404725
QCD 250-500	0	0	0	0
QCD 500-1000	0	0	0	0
QCD 1000-Inf	0	0	0	0
BB	0	0	0	0
WJets	0	0	0	0
TT Bar Jets	0.0541384	0.324831	0.433107	0.433107
Sig LM0	5.97449	3.81597	3.47508	3.47508
Sig LM1	0.954271	0.660806	0.614982	0.614982

PF elTight

Particle Flow Jets and MET and Particle Flow leptons.
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Sample	electrons V+j pt 10	SL opt::pt10	SL opt::pt5	SL opt::pt2
LM0	83.542	74.9322	76.9053	76.995
LM1	9.53633	9.24122	9.88766	9.91857
QCD 250-500	0	0	0	0
QCD 500-1000	0	0	0	0
QCD 1000-Inf	0.430228	0.334622	0.430228	0.430228
BB	0	0	0	0
WJets	209.958	192.462	192.462	192.462
TT Bar Jets	75.3065	68.2685	69.7844	69.8386
Sig LM0	4.94258	4.63761	4.74511	4.75015
Sig LM1	0.564196	0.571946	0.610075	0.611919

Particle Flow Jets and MET and Particle Flow leptons.
Same Sign Double Lepton!!

Sample	electron electron V+j pt 10	SL opt::pt10	SL opt::pt5	SL opt::pt2
LM0	1.5695	1.18833	1.30044	1.30044
LM1	0.269817	0.241711	0.269817	0.269817
QCD 250-500	0	0	0	0
QCD 500-1000	0	0	0	0
QCD 1000-Inf	0	0	0	0
BB	0	0	0	0
WJets	0	0	0	0
TT Bar Jets	0	0.0541384	0.0541384	0.0541384
Sig LM0	inf	5.10723	5.58904	5.58904
Sig LM1	inf	1.03883	1.15962	1.15962

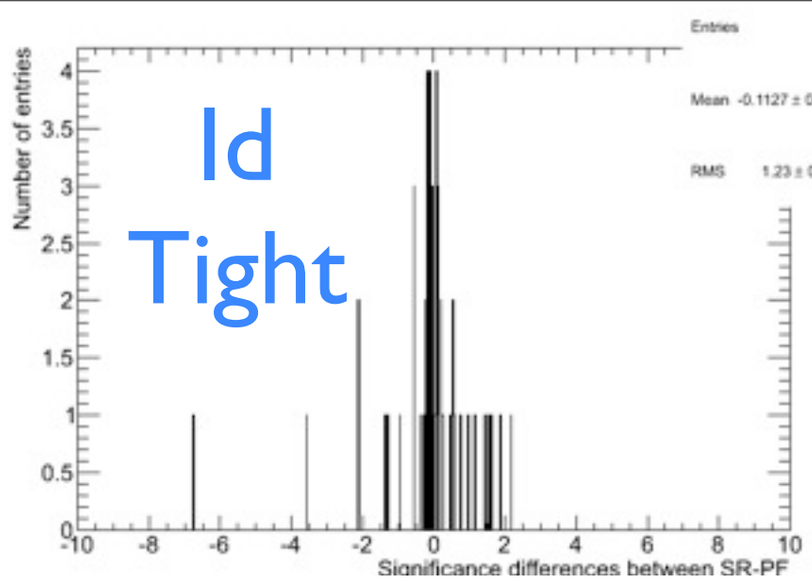
PF 0.6 < mva < 1 and H over E < 0.06

Particle Flow Jets and MET and Particle Flow leptons.
Single Lepton!!

Sample	electrons V+j pt 10	SL opt::pt10	SL opt::pt5	SL opt::pt2
LM0	62.9659	92.0719	108.449	121.876
LM1	8.86105	12.405	16.0268	17.868
QCD 250-500	0	0	0	0
QCD 500-1000	0	2.59185	5.1837	5.1837
QCD 1000-Inf	0.330959	1.98575	5.25398	10.7975
BB	0	0	0	0
WJets	196.844	242.27	257.412	257.412
TT Bar Jets	12.5097	17.2886	18.3194	18.6474
Sig LM0	4.34832	5.66517	6.41082	7.13178
Sig LM1	0.61193	0.763277	0.947402	1.04558

Particle Flow Jets and MET and Particle Flow leptons.
Same Sign Double Lepton!!

Sample	electron electron V+j pt 10	SL opt::pt10	SL opt::pt5	SL opt::pt2
LM0	1.55232	4.26887	6.79139	9.97364
LM1	0.367285	0.678626	1.10429	1.52752
QCD 250-500	0	0	0	0
QCD 500-1000	0	0	0	2.59185
QCD 1000-Inf	0	0.0413699	0.248219	1.11699
BB	0	0	0	0
WJets	15.1419	15.1419	15.1419	15.1419
TT Bar Jets	0	0.0937053	0.140558	0.515379
Sig LM0	0.398925	1.09218	1.72331	2.26638
Sig LM1	0.0943872	0.173625	0.280212	0.347108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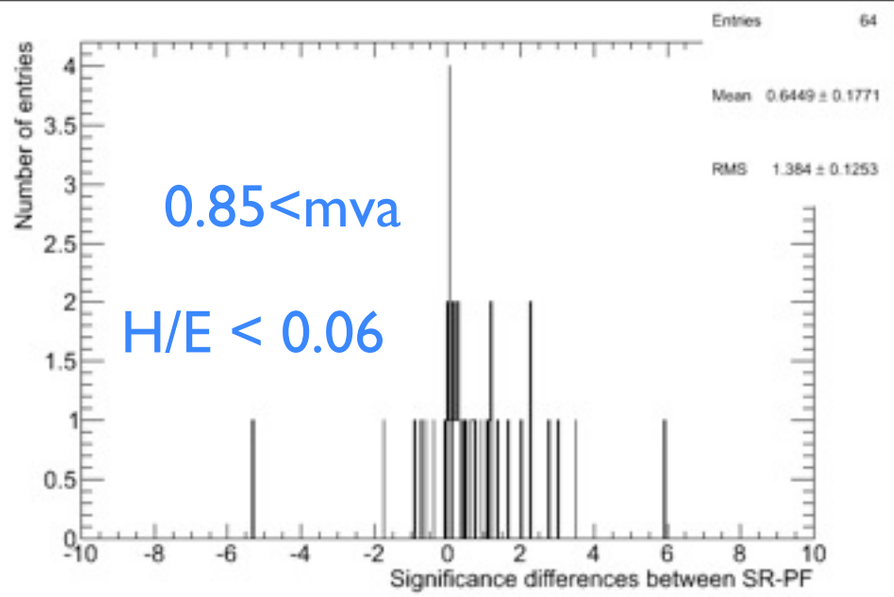
Tight
Entries 64
Mean -0.1127 ± 0.1574
RMS 1.23 ± 0.1113
Number of entries
Significance differences between SR-PF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H/E < 0.06
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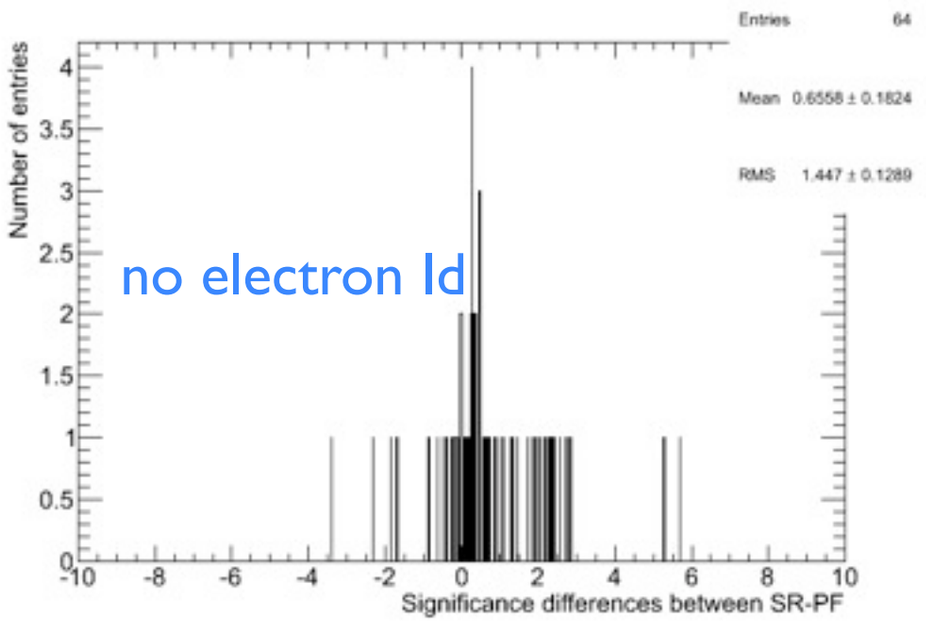
Mean 0.6449 ± 0.1771
RMS 1.384 ± 0.1253
Number of entries
Significance differences between SR-PF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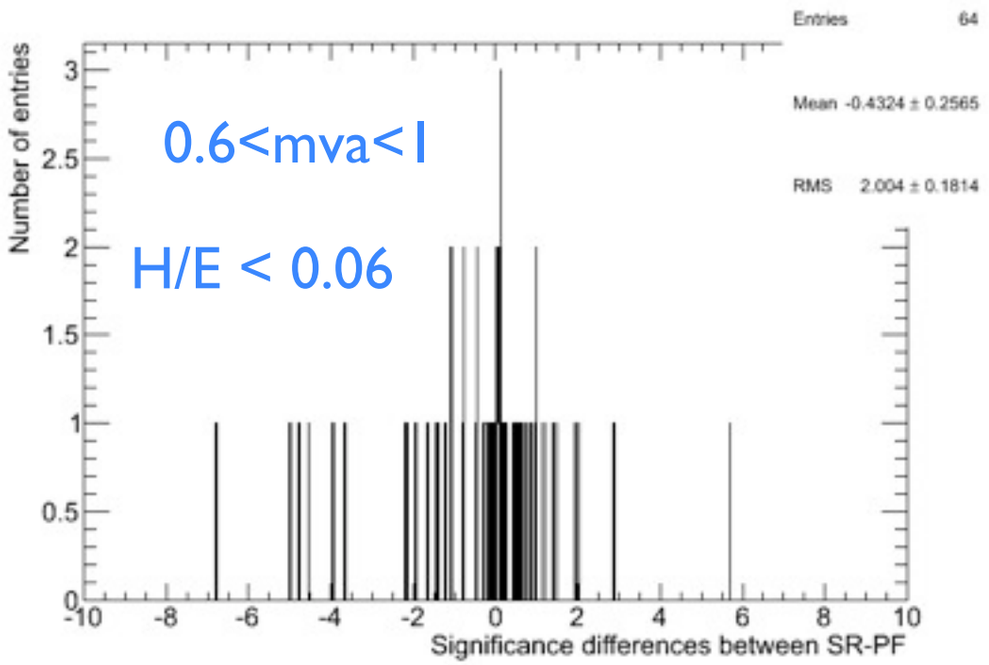
Entries 64
Mean 0.6558 ± 0.1824
RMS 1.447 ± 0.1289
Number of entries
Significance differences between SR-PF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H/E < 0.06
Entries 64
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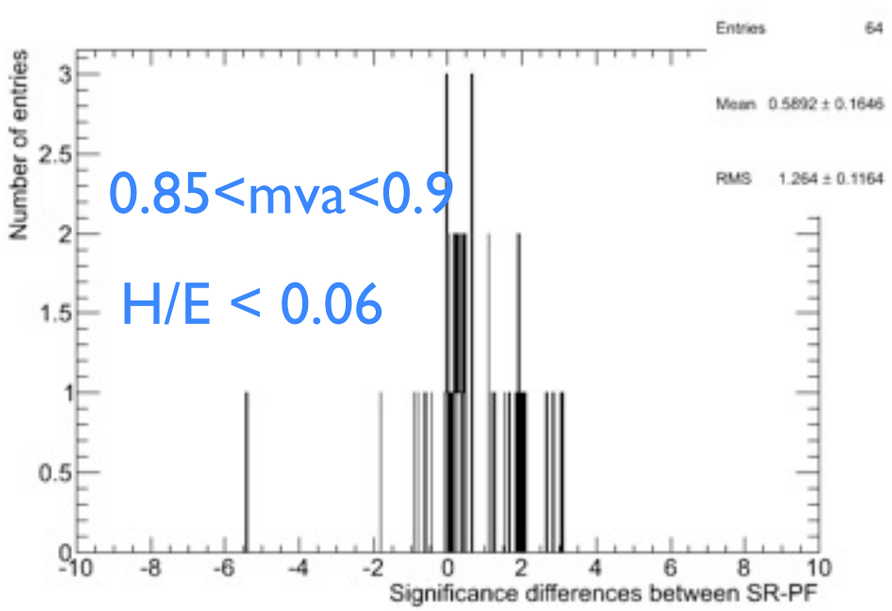
RMS 2.004 ± 0.1814
Number of entries
Significance differences between SR-PF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H/E < 0.06
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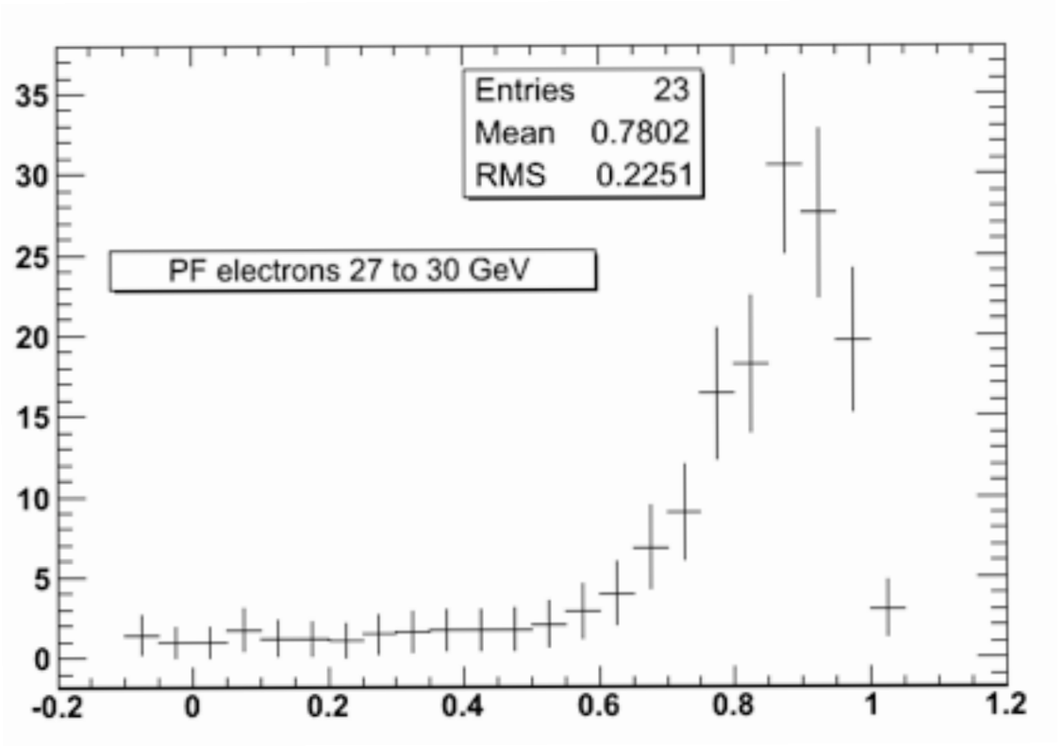
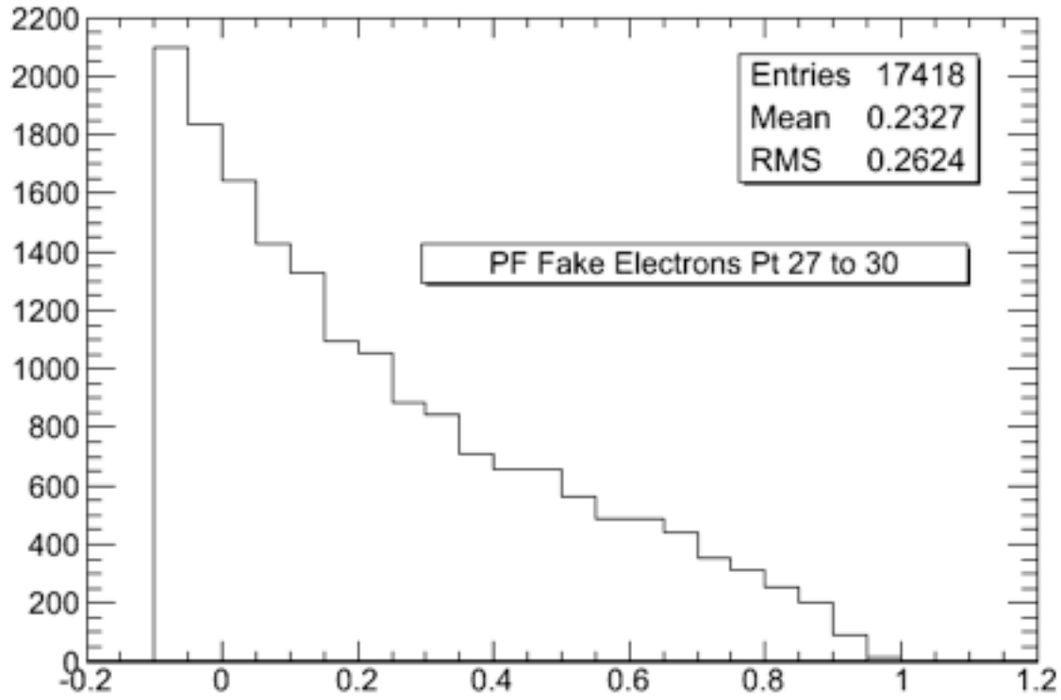
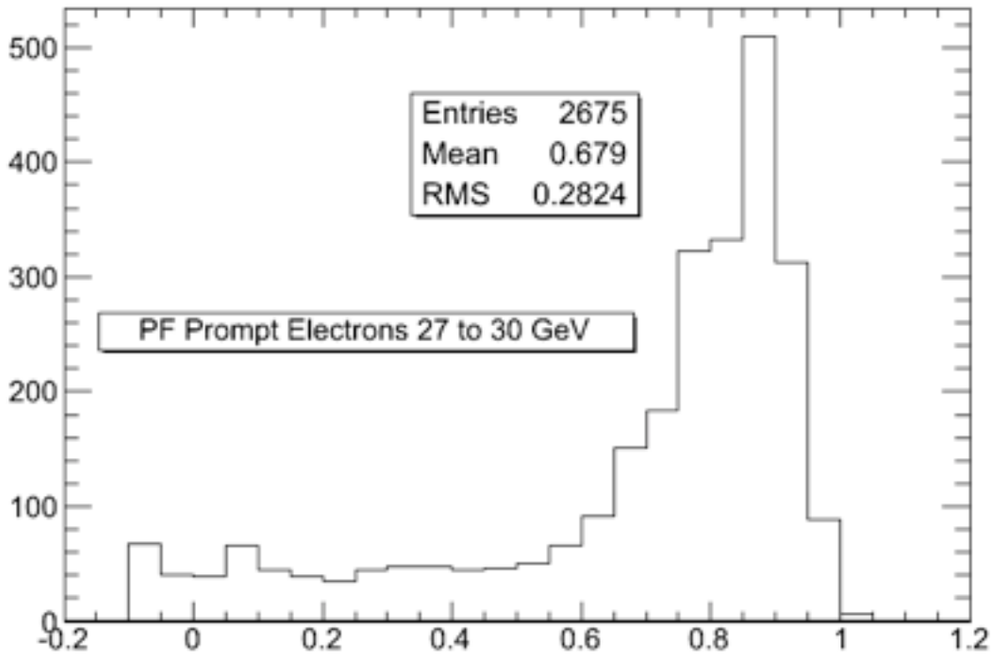
Number of entries
Significance differences between SR-PF



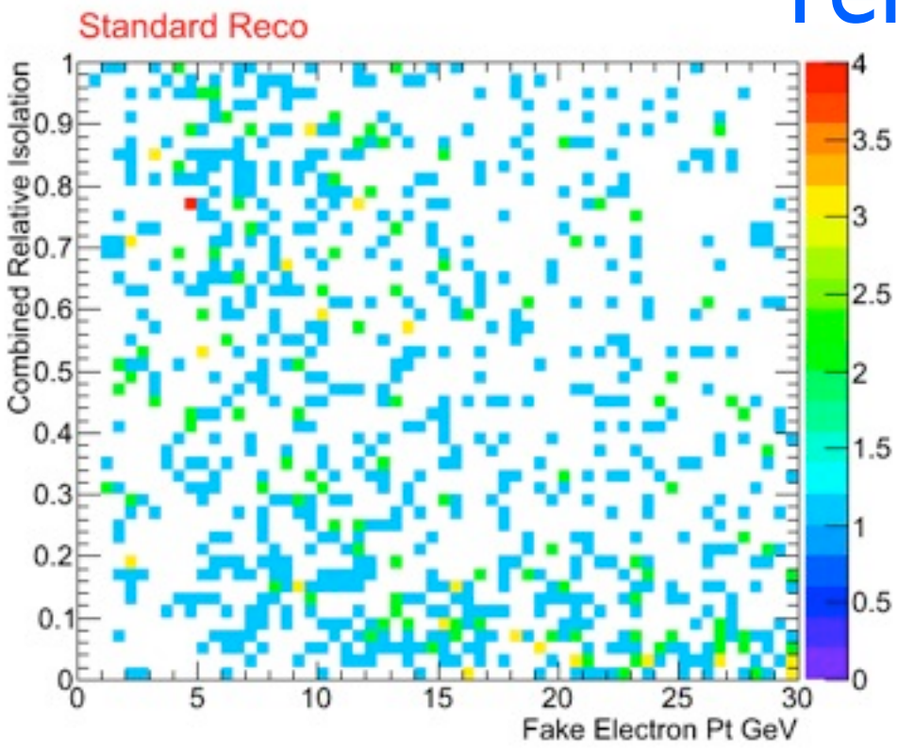


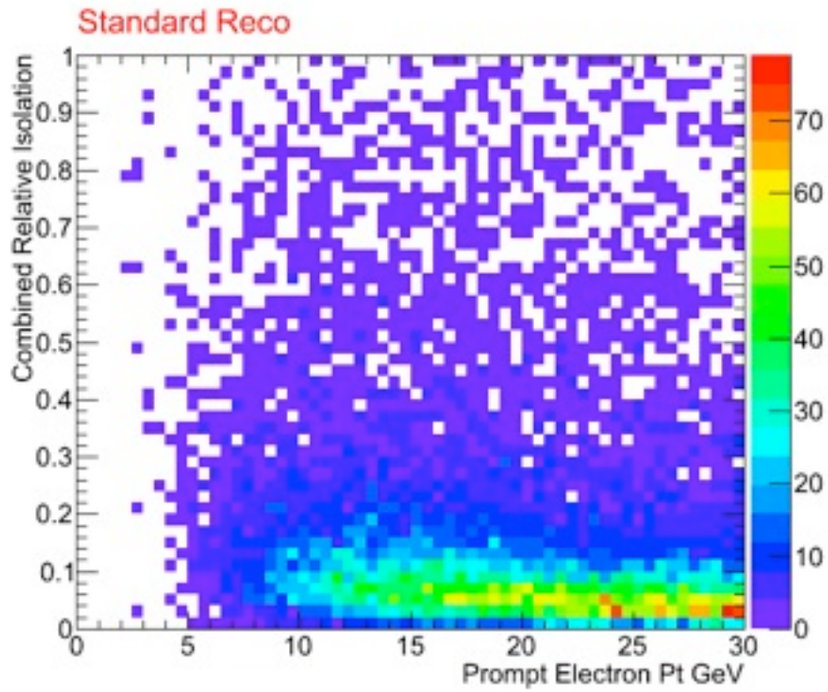


For all pt bins (0 to 3 Gev, 3 to 6, 6 to 9, ..., 27 to 30) the behaviour is almost identical, at lower pt lower statistics.

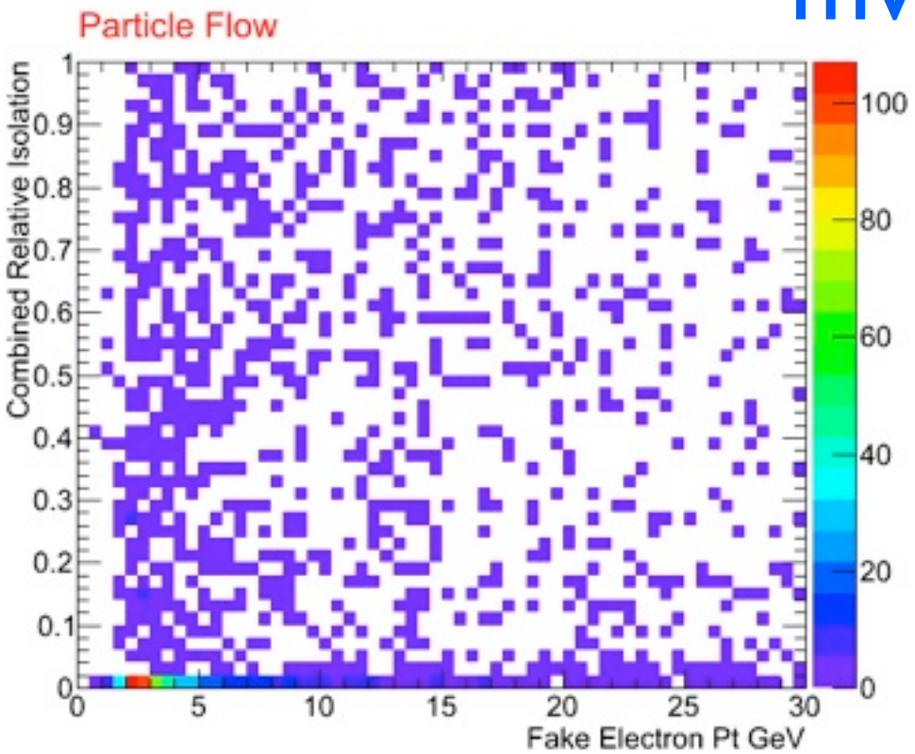
Fakes are decreasing when mva is closer to 1, however prompts seems to have the biggest acceptancy in between 0.7 to 0.95, I'm making a guess just looking at the plot.

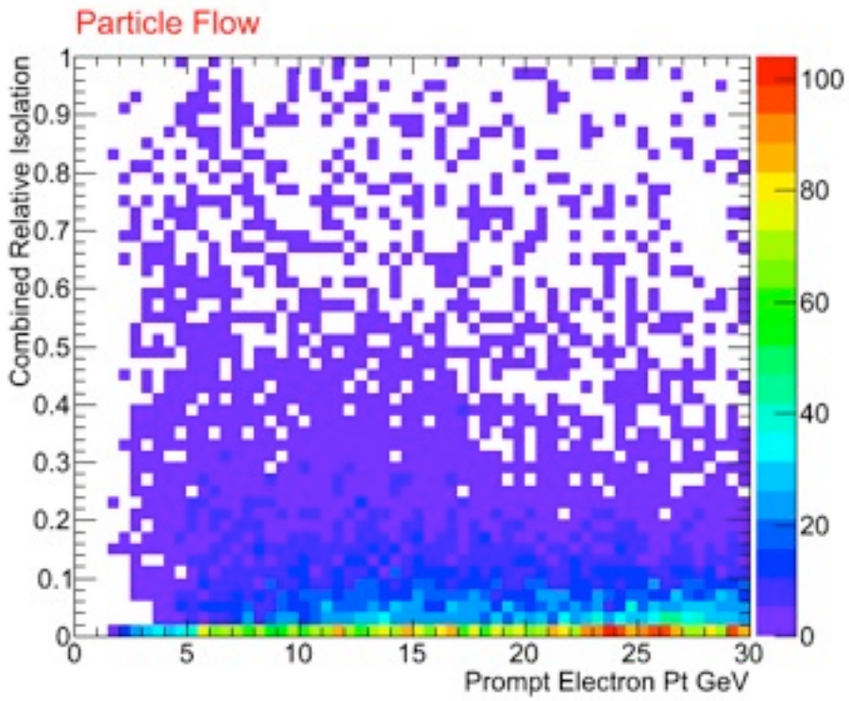
reference



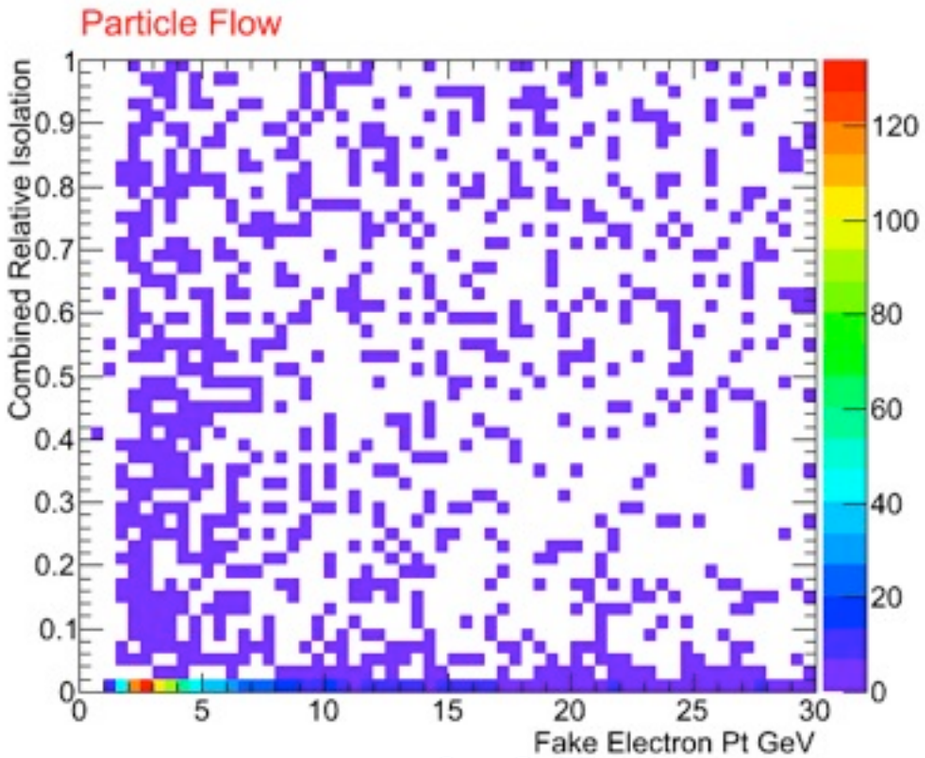


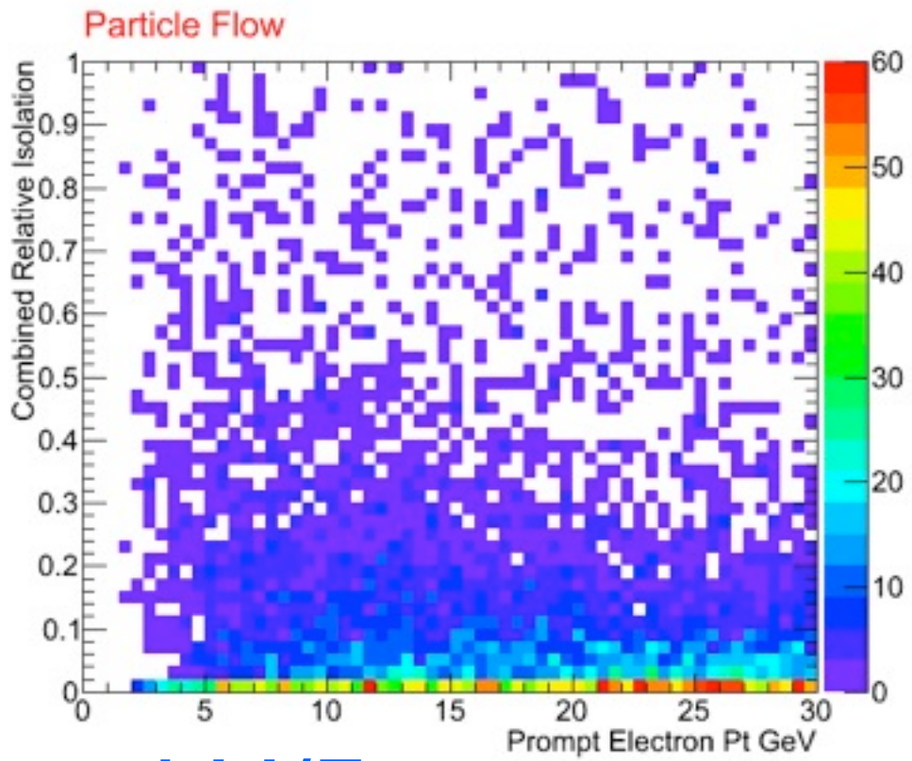
mva > 0.85



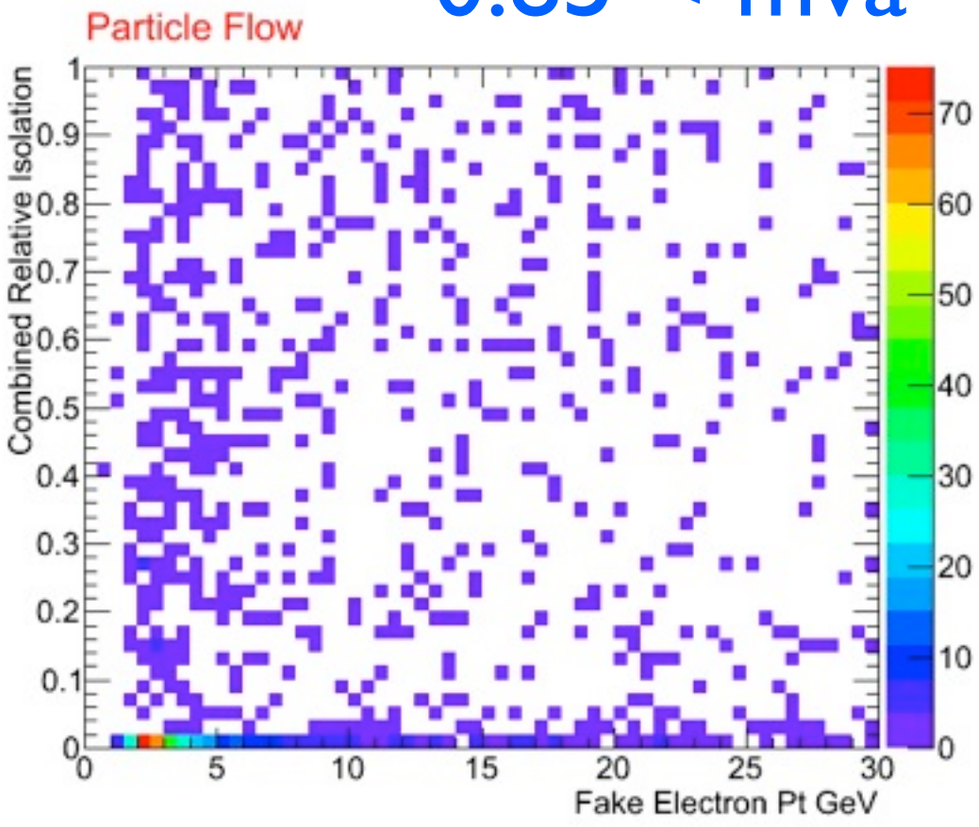


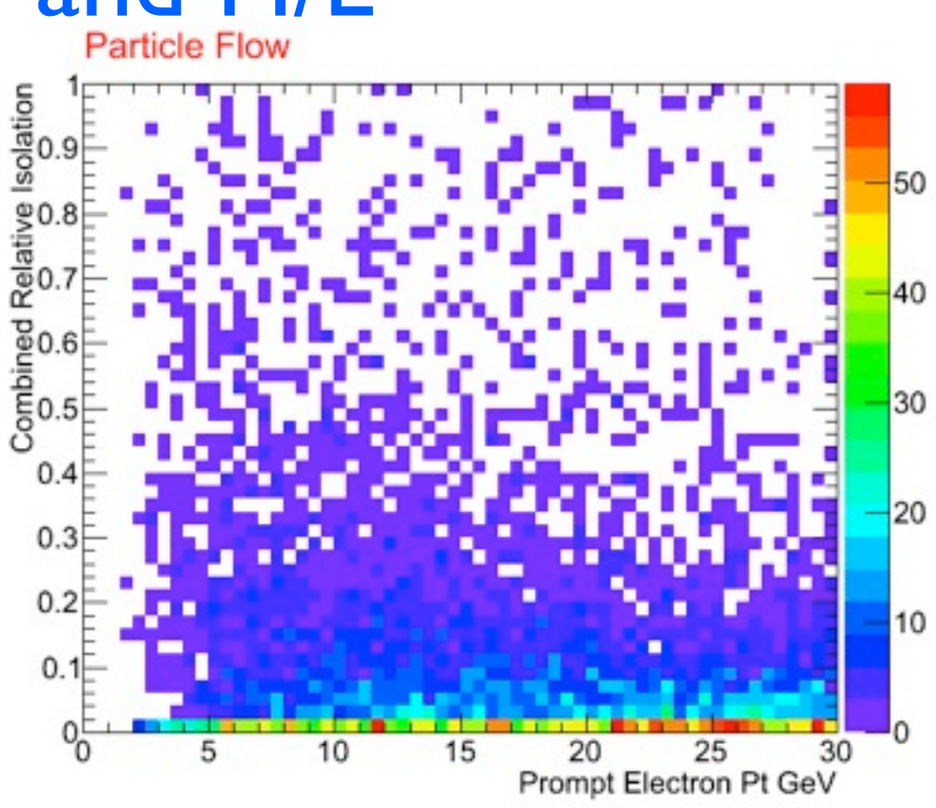
0.85 < mva < 0.9





0.85 < mva < 0.9 and H/E





0.6 < mva < 1 and H/E